EVALUATING THE PERFORMANCE OF AN AUTOMOTIVE SWITCH NETWORK

A diagnostic device and interface is connected to an automotive switch fabric network, comprising of a plurality of communication nodes, through one of the nodes in the switch fabric network. The diagnostic device and interface configures the switch fabric network to operate in a test mode. The diagnostic device and interface issues a first command to one node to start traffic across a test node and a second command to another node to generate a test message that passes through the test node. The test node contains message processing logic that processes the messages as they pass through the test node. A plurality of timestamps is generated in the message processing logic of the test node to monitor the progression of the messages through the processing logic. The test node includes a diagnostic interface agent that collects timestamp data and reports the data to the diagnostic interface and device.
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**INTERNATIONAL SEARCH REPORT**

A.  CLASSIFICATION OF SUBJECT MATTER

IPC:  
G01R 31/08( 2006.01);G08C 15/00( 2006.01);H04L 1/00( 2006.01)

USPC:  
370/223,225

According to International Patent Classification (IPC) or to both national classification and IPC

B.  FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/223,225

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C.  DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category *</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X, E</td>
<td>US 2005/0251604 A1 (GERIG) 10 November 2005 (10.11.2005), Abstract, Figs. 9 and 10, paras 0008,0009,0027,0031-0035</td>
<td>1-10</td>
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</tbody>
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☐ Further documents are listed in the continuation of Box C.  ☐ See patent family annex.

* Special categories of cited documents:

- **A** document defining the general state of the art which is not considered to be of particular relevance
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